

1 SKATEBOARD

2 CROSS-REFERENCES TO RELATED APPLICATIONS

3 Not Applicable.

4 BACKGROUND OF THE INVENTION

5 FIELD OF THE INVENTION

6 The present invention relates to a skateboard.

7 DESCRIPTION OF THE RELATED ART

8 A first conventional skateboard in accordance with the prior art shown in Fig. 4
9 comprises an elongated solid body (40) made of plastic by means of an injection molding
10 process, two support brackets (41) each secured on one of the two end portions of the
11 elongated body (40) and each having two wheels (42) each rotatably mounted on one of the
12 two end portions thereof. However, the solid body (40) is heavy, thereby decreasing its
13 portability and increasing the cost of manufacturing. In addition, the solid body (40) lacks
14 flexibility and elasticity, thereby reducing the manipulation and movement of the skateboard.
15 Moreover, the elongated body (40) made of plastic cannot be reused when it is worn out.

16 A second conventional skateboard in accordance with the prior art shown in Figs. 5
17 and 6 comprises an elongated sheet-shaped body (50) made of an alloy, a reinforcing frame
18 (52) secured on the bottom of the body (50), two support brackets (52) each secured to one of
19 the two end portions of the reinforcing frame (51) and each having two wheels (54) each
20 rotatably mounted on one of the two end portions thereof. However, the sheet-shaped body
21 (50) is weak and is easily deformed when hit by foreign objects.

22 The present invention has arisen to mitigate and/or obviate the disadvantage of the
23 conventional skateboards.

24 BRIEF SUMMARY OF THE INVENTION

25 In accordance with one aspect of the present invention, there is provided a
26 skateboard comprising an elongated body including a top plate, a bottom plate and two
27 opposite closed side plates each located between the top plate and the bottom plate, and a
28 plurality of reinforcing ribs each longitudinally arranged in the elongated body and each
29 supported between the top plate and the bottom plate.

1 The elongated body includes a support base formed on the mediate portion of the
2 top plate thereof, and the skateboard comprises two strengthened frames each longitudinally
3 arranged in the elongated body located adjacent to the support base, and each supported
4 between the top plate and the bottom plate. Preferably, the elongated body, the reinforcing
5 ribs and the strengthened frames are integrally made of an aluminum alloy.

6 The skateboard further comprises a foam core material inside the elongated body
7 located between each of the strengthened frames and reinforcing ribs. The skateboard further
8 comprises two flexible protective pads each secured on one of the two end portions of the
9 elongated body.

10 Further benefits and advantages of the present invention will become apparent
11 after a careful reading of the detailed description with appropriate reference to the
12 accompanying drawings.

13 BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

14 Fig. 1 is a perspective view of a skateboard in accordance with the present
15 invention;

16 Fig. 2 is a front plan view in partial section of the skateboard as shown in Fig. 1;

17 Fig. 3 is a front plan view in partial section of the skateboard as shown in Fig. 1,
18 with a foam core material;

19 Fig. 4 is a perspective view of a first conventional skateboard in accordance with
20 the prior art;

21 Fig. 5 is a partial top plan view of a second conventional skateboard in accordance
22 with the prior art; and

23 Fig. 6 is a front plan view in partial section of the skateboard as shown in Fig. 5.

24 DETAILED DESCRIPTION OF THE INVENTION

25 Referring now to Figs. 1-3, a skateboard in accordance with the present invention
26 comprises an elongated hollow body (10) including a top plate (11), a bottom plate (12) and
27 two opposite closed side plates (13) each located between the top plate (11) and the bottom
28 plate (12), two support brackets (20) each secured on one of the two end portions of the
29 bottom plate (12) of the elongated body (10) by means of four bolts (15) and each having two

1 wheels (22) each rotatably mounted on one of the two end portions thereof, and two flexible
2 protective pads (30) each secured on one of the two end portions of the elongated body (10).

3 The skateboard further comprises a plurality of reinforcing ribs (14) each
4 longitudinally arranged in the elongated body (10) and each formed between the top plate (11)
5 and the bottom plate (12).

6 The elongated body (10) includes a support base (100) formed on the mediate
7 portion of the top plate (11) thereof, and the skateboard further comprises two strengthened
8 frames (141) each longitudinally arranged in the elongated body (10) adjacent to the support
9 base (100), and each formed between the top plate (11) and the bottom plate (12). The
10 elongated body (10), the reinforcing ribs (14) and the strengthened frames (141) are
11 integrally made of single moldable material, such as an aluminum alloy.

12 The skateboard further comprises a foam core material (16) inside the elongated
13 body (10) to fill the voids between the strengthened frames (141) and the reinforcing ribs
14 (14).

15 In such a manner, the elongated body (10) is made hollow, thereby greatly reducing
16 the weight thereof so as to increase its portability and to decrease the cost of fabrication. In
17 addition, the elongated body (10) is both flexible and elastic due to its hollow design. Further,
18 the elongated body (10) is made very strong by means of the reinforcing ribs (14) and the
19 strengthened frames (141) such that it is not easily deformed when it hits or is hit by foreign
20 objects. Moreover, the elongated body (10) is integrally made of an aluminum alloy such that
21 it can be ~~reused when~~ *recycled after* being worn out.

22 It should be clear to those skilled in the art that further embodiments may be made
23 without departing from the scope and spirit of the present invention.